## CLAIMS

## What is claimed is:

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An apparatus for encoding a mark into digital data, comprising:
 means for locating in the digital data, using a predetermined pattern, at least two
values that represents a flat area; and

means for modifying the values in the flat area to encode a mark into the flat area; wherein the means for locating in the digital data further comprises:

means for calculating a variability for a selected portion of the digital data using the predetermined pattern; and

means for representing the flat area when the variability is less than a predetermined amount;

wherein the apparatus for encoding is part of a device receiving an unencoded data to create the digital data; and

wherein the apparatus for encoding is part of the device using the values in the flat area to create an encoded data.

- 20 2. The apparatus of claim 115, wherein the predetermined pattern is a regular pattern.
  - 3. The apparatus of claim 115, wherein the predetermined pattern is an irregular pattern.

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4. The apparatus of claim 115, wherein the predetermined pattern identifies a consecutive set of values.

5. The apparatus of claim 115, wherein the means for modifying the values further comprises:

means for modifying the values according to a recognizable amount.

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6. The apparatus of Claim 119, wherein the means for modifying the values further comprises:

means for adding the recognizable amount to the values.

7. The apparatus of claim 119, wherein the means for modifying the values further comprises:

means for subtracting the recognizable amount from the values.

8. The apparatus of claim 119, further comprising the means for computing the recognizable amount includes:

a means for calculating a function of the variability in the flat area.

- 9. The apparatus of claim 122, wherein the means for computing the recognizable amount further comprises:
- means for computing the recognizable amount as a multiple of the variability in the flat area.
  - The apparatus of claim 119, further comprising:means for modifying the values in the flat area to provide at least one known peak
- in the flat area.

11. The apparatus of claim 115, wherein the means for modifying the values further comprises:

means for modifying at least two of the values in the digital data to represent a single mark value in the flat area.

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12. The apparatus of claim 115, further comprising:

means for locating in the digital data, using a predetermined pattern, at least two values that represents a second flat area; and

means for modifying the values in the second flat area to encode the mark into the second flat area.

- 13. The apparatus of claim 115, further comprising:means for converting the format of the digital data.
- 15 14. The apparatus of Claim 115, at least one of the means is implemented using a computer accessing a memory.
  - 15. The apparatus of Claim 115, wherein the device is included in a computer receiving the unencoded data.

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- 16. The apparatus of Claim 115, wherein the device communicates with a processor within a computer to create the encoded data within the computer.
- 17. The apparatus of claim 115, wherein the predetermined pattern is one dimensional.

- 18. The apparatus of claim 115, wherein the predetermined pattern is two dimensional.
- 19. The method of claim 115, wherein the predetermined pattern is three dimensional.

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